Bliss, G. D., 166.
Blood corpuscles, red, Mechanism of effect of ultraviolet rays on (abstract), H. Koeppe, 183.
Blood, Effect of irradiated milk on (abstract), Veronica Dawkins and C. Lee Pattison, 457, 458.
Bloodgood, Joseph Colt, 87, 195, 217, 289, 290, 445-447. *See below.*
Bloodgood, Joseph Colt, Tissue diagnosis in operating room and immediate cover-slip examinations of all fluids and pus (original communication), 445. *See other references.*
Bloodgood, Joseph Colt, What every radiologist should know about bone tumors (original paper), 195.
Boggs, 204.
Bohr, 44, 64.
Bolaffio, M., 89.
Bolliger, A., 142, 155, 436, 477, 480. *See below.*
Bolliger, A., Hartman, F. W., and Doub, H. P., Relative sensitivity of kidney to irradiation (original paper), 142; discussion, 436. *See other references.*
Bond, R. C., 176.
Bone cyst, Etiology of solitary (abstract), D. B. Phemister and J. E. Gordon, 178.
Bone diseases in infants and children, E. L. Jenkinson and Philip Lewin, 409.
Bone lesion, How to diagnose and treat: I.—central lesions (abstract), J. C. Bloodgood, 85-87.
Bone lesions of hand and foot, Diagnosis and treatment of, with special reference to bone tumors, Max Kahn and L. C. Cohn, 289.
Bone, Radium necrosis of (abstract), D. B. Phemister, 276.
Bone, semilunar, Chronic osteitis of (Kienböch's disease), abstract, M. S. Henderson, 90.
Bone tumors, What every radiologist should know about, J. C. Bloodgood, 195.
Bones forming tarsus, Enlargement of (abstract), A. Mouchet and J. Belot, 271, 272.
Bones, neoplastic lesions of, Key to diagnosis and prognosis of, W. C. MacCarty, 277.
Bonnamour, 275.
Bonnus, G., 318, 324.
Borak, J., 181, 524.
Bordet, E., 27, 33, 303, 304, 306.
Bosquet, F. H., 256.
Bott, Oskar, 174.
Bovie, W. T., 329.
Bowel irritation, Some observations on influence of, over gastric and duodenal region (abstract), R. M. Clarke, 83, 84.
Bowen, Charles F., 336.
Bower, J. O., 228, 229.
Bowing, H. H., 417, 420, 444.
Bradford, Sir John Rose, 1-3, 9, 11, 13.
Bradshaw, 2.
Bradshaw Lecture, 1908, 2, 13.
Brady, Geo. W., & Co., exhibit, 159.
Bragg, 389, 390.
Brain abscess present in patients suffering from nasal accessory sinus disease, Report of two cases of (abstract), R. E. Parrish, 180, 181.
Brain tumor, Case of hydrocephalus simulating (abstract), A. W. Young, 268.
Brams, Julius, Injection of pilonidal cyst with lipiodol (original paper), 248.
Brandes, K., 273.
Breast, cancer of. *See* Carcinoma, mammary, Value of radium in treatment of, Joseph Muir, 416.
Breast, carcinoma of, Treatment of, Robert E. Fricke, 39.
Bredig, 461.
Briscoe, J. C., 2, 3, 8-10, 13.
British Colloid Company, distributors of Blair Bell's solution, 468.
Broders, A. C., 417.
Brodie, 484, 487.
de Broglie, 449.
Bromeis, H., 270.
Bronchiectasis, Iodized oil with reference to (abstract), Bruce Whyte, 456.
Brooks, Clark D., 444.
Brown, 455.
Brown, Arthur Selwyn-, 79, 80.
Brown, Herbert, 296.
Brown, R. Mark, 158.
Brown, William L., 444.
Bruce Publishing Co. exhibit, 160.
Buck X-ograph Co. exhibit, 160.
Bulson, A. E., Jr., 183.
Bumpus, H. C., Jr., 272, 440.
Burnam, Curtis F., 170, 177, 200, 445.
Burrows, A., 257.
Burrows, Arthur, 224, 229.
Burrows, Montrose T., 155, 466.
Butts, Donald C. A., Benson, F. C., Jr., and Frank, J. W., Electron in and out of roentgen tube and radium atom, 44.
Byfield, 398.
By-laws, Change in, 256.

Cabot, Hugh, 357.
Cabrera, A., 256.
Calculi, renal, Radiographic simulation of, by papillomata of skin (abstract), M. M. Melicow and H. H. Gile, 357.
Calculi [of] salivary glands and ducts (abstract), G. R. Harrison, 458.
"California disease" (coccidioidal granuloma), 414.
California, University of, department of anatomy, 385.
Calot, 412.
Calvé, 412.
Cambridge (England), University of, courses in radiology, 383.
Cameron, William H., Easy method for making surface casts to hold radium tubes in position (original paper), 438.
Cameron's Surgical Specialty Co. exhibit, 160.
Camp, C. D., 137.
Camp, John D., 361.
Campbell, W. H., 133, 139.
Cancer. *See also* Carcinoma, Neoplasms, *and* Malignancies.
Cancer [of] cervix, Reaction of tissues to radium in treatment of, and importance of lacerations in producing cancer in this location (abstract), L. K. P. Farrar, 481.
Cancer, colloidal lead in treatment of, after method of W. Blair Bell, Use of, H. J. Ullmann, 461.
Cancer, etiology of, New research in, with reference to work of Gye (abstract), M. J. Sittenfield, 452, 453.
Cancer Hospital, London, 475.
Cancer, intra-oral, Radon (radium emanation) in treatment of (abstract), F. E. Simpson and R. E. Flesher, 82, 83.
Cancer, laryngeal, Application of radium to, Joseph Muir, 34.
Cancer, Metallic colloids in treatment of, 461-481.
Cancer, Metallic colloids in treatment of: preliminary report, Albert Soiland, William E. Costolow, and Orville N. Meland, 469.
Cancer problem with reference to recent developments, M. J. Sittenfield, 465.

"Cancer, Psychological Study of," Elida Evans, reviewed, 525, 526.
Cancer, rectal, Prognosis in (abstract), J. P. Lockhart-Mummery, 453-455.
Cancer research, *see* Electron in and out of roentgen tube and radium atom, D. C. A. Butts, F. C. Benson, Jr., and J. W. Frank.
Cancer Review—A Journal of Abstracts, 256.
Cancer, Surgical treatment of, W. J. Mayo, 93.
Cancer [of] tongue, Radiotherapy for (abstract), G. Zanotti, 533.
Cancer, X-rays and radium in fight against, G. E. Pfahler, 215.
Cannon, 296, 369.
Cantrell, Thomas D., Simple method for knowing face of plate taken in cassette (original paper), 439.
Capehart, Charles, 79, 80.
Carcinoma. *See also* Cancer, Neoplasms, *and* Malignancies.
Carcinoma [of] bladder, Deep roentgen-ray therapy in treatment of (abstract), C. A. Waters, 178, 179.
Carcinoma [of] bladder, urinary, inoperable, Roentgen-ray treatment of (abstract), H. Schmitz and J. E. F. Laibe, 179.
Carcinoma [of] breast, Treatment of, Robert E. Fricke, 39.
Carcinoma [of] breast. *See* Carcinoma, mammary, *below.*
Carcinoma [of] esophagus, Application of radium to, Joseph Muir, 127.
Carcinoma, extracranial, infiltrating ganglion by direct extension through maxillary division, Tumors of gasserian ganglion, with report of two cases of (abstract), M. M. Peet, 366, 367.
Carcinoma, Gastric, treated by radium application, Joseph Muir, 330.
Carcinoma [of] jaw, lower (abstract), Douglas Quick, 421.
Carcinoma [of] lung, Primary (abstract), H. W. Cave, 531.
Carcinoma, mammary, Value of radium in treatment of, Joseph Muir, 416.
Carcinoma [of] prostate: clinical study of 1,000 cases (abstract), H. C. Bumpus, Jr., 272.
Carcinoma [of] prostate, Metastasis in, with report of case showing early and late changes (abstract), John Sproull, 440.
Carcinoma [of] uterine cervix, Question of irradiation and of (abstract), W. Furst, 274.
Carcinoma, uterine, Should they be operated on or irradiated (abstract), H. Eymer, 357.
See also Cervix, cancer of, *etc.*
Carman, R. D., 116, 155, 159, 176.
Carmody, 401.
Carter, L. J., 266, 365, 366, 368, 432, 456, 457, 528, 531.
Case, James T., 166, 176, 270, 445, 448, 449, 522.
Caspari, 455.
Cathode ray tube—development of General Electric Research Laboratory, 77.
Cave, Henry W., 531.
Cavers, Francis, 256.
Central Illinois Radiological Society, 77.
Cervix, cancer of, Reaction of tissues to radium in treatment of, and importance of lacerations in producing cancer in this location (abstract), L. K. P. Farrar, 481.
Cestan, R., 318, 324.
Chamberlain, W. E., 385.
Charcot, 133.
Chauveau, 398.
Cheney, Garnett, 82.
Chest, Diseases of, demonstrated by lipiodol (abstract), A. Howard Pirie, 452.
Children and infants, Bone diseases in, Philip Lewin and E. L. Jenkinson, 409.
Children, Roentgen studies of 500, for thymic enlargement (abstract), C. W. Perkins, 264.
Childs, Donald S., 166.
Chloroform and ether, effect of, on diastolic heart size (Use of X-rays in study of physiology, Walter J. Meek), 372.
Cholecystography, 527.
Cholecystography by oral method, Reliability of (abstract), W. H. Stewart and E. J. Ryan, 172, 173.
Cholecystography in diabetes mellitus (abstract), M. K. Tedstrom, R. C. Bond, W. H. Olmsted, and Sherwood Moore, 175, 176.
Cholecystography, Present status of (abstract), B. R. Mooney, 531.
Cholecystography, Relative value of, and so-called direct and indirect methods of roentgenologic examination of gall bladder (abstract), J. T. Case, 176.
Cholecystography, Technic of administration of sodium tetraiodophenolphthalein in (abstract), Garnett Cheney, 82.
Christenson, F. C., 158.
Christian, Henry A., 99, 102, 103.
Christie, A. C., 143, 148, 360, 410, 443.
Clark, 219.
Clark, J. H., 228, 229.
Clark, James J., Undergraduate instruction in roentgenology (original paper), 394.
Clark, William L., 445.
Clarke, R. M., 84.
Clement, T. G., 356.
Clerf, L. H., 489, 491.
Cleveland Clinic, 36, 156, 431.
Clinical Pathologic Association classification, 282.
Coccidioidal granuloma (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 414.
Codman, 199.
Cohn, of Rockefeller Institute, 308.
Cohn, L. Clarence, and Kahn, Max, Diagnosis and treatment of bone lesions of hand and foot, with special reference to bone tumors (original paper), 289.
Cohnheim, 48.
Cole, Lewis Gregory, 112, 149, 156, 159, 447, 451. *See below.*
Cole, Lewis Gregory, and Morse, Russell W., Anatomy of normal small intestine as observed roentgenographically (original paper), 149. *See other references.*
Collins, Joseph, 525.
Colloids, Metallic, in treatment of cancer, 461-481.
Colloids, Metallic, in treatment of cancer: preliminary report, Albert Soiland, W. E. Costolow, and O. N. Meland, 469.
Colon, Technic for roentgenological study of (abstract), W. O. Upson, 364.
Compton, 459.
Compton effect and its significance in radiotherapy (abstract), W. Friedrich, 459.
Compton effect in deep therapy (abstract), H. Wintz, 459.
Contamin, 216, 220.
Coolidge, W. D., 77.
Cooper, Albert L., 155, 159, 230. *See below.*
Cooper, Albert L., and Young, Frank B., Study in paleopathology (original paper), 230. *See other references.*
Cooper Hewitt Electric Company, 155.

Copper, characteristic radiation of, Erythema dose in roentgen units for (abstract), G. H. Kloevekorn and O. Gaertner, 455.
Copper, colloidal. *See* Colloids, Metallic, in treatment of cancer: preliminary report, Albert Soiland, William E. Costolow, and Orville N. Meland, 469; also 475.
Cornell, W. B., 133, 139.
Corrigan, C. E., 366.
Corrigan, S. H., 366.
Corscaden, James A., 171, 444.
Costolow, William E., Soiland, Albert, and Meland, Orville N., Metallic colloids in treatment of cancer: preliminary report (original paper), 469.
Cotte, G., 460.
Cottenot, P., 318, 324, 331, 335, 490, 491.
Coughlin, W. T., 4.
Cowell, 457.
Cowles, Stephen J., 160.
Cramer, William, 256.
Crawford, J., 185, 193.
Crile, G. W., 38.
Crookes' tube, 255.
Crymble, P. T., 2, 13.
Cuban Radiological and Physiotherapeutic Society, 256.
Cunningham, T. D., 407.
Curie, Mlle. I., 444, 449.
Curtis, 495.
Cushway, B. C., 180, 181, 270.
Cutaneous tolerance for roentgen rays, Variations of (abstract), G. M. MacKee and J. J. Eller, 171, 172.
Cutler, E. C., 2, 13.
Cysts, gas, of intestines, Radiologic diagnosis of (abstract), Bonnamour, Badolle, and Beaupere, 275.
Cysts, maxillary, and chronic sinusitis, Iodized oil as aid in diagnosis of (abstract), P. B. MacCready, 487.
Czerny, L. J., 357.

Dachtler, Harry, 441.
Dakeman, of Muncie, Indiana, 158.
Dallwig, H. C., 159.
Dandy, 263.
Danielopolu, 100, 103.
Dauphin, 45.
Dauvillier, 449.
David, O., 190, 194.
Davis, Kenneth S., 143, 148.
Davis, Warren, 398.
Dawkins, Veronica, 457, 458.
Dean, 398, 404.
Degrais, 331.
Delbet, P., 335.
Delherm, L., 318, 324.
Dennos Products Co. exhibit, 160.
Dental films, Use of, in determination of stray radiation, R. S. Landauer, 512.
Dermatology, Radium in (abstract), Hugh Mackay, 432.
Derr, John S., 336.
Descomps, Paul, 318, 324.
Desjardins, Arthur U., 170, 274, 317, 327-329, 449. *See below.*
Desjardins, Arthur U., Analgesic property of roentgen rays (original paper), 317. *See other references.*
Despeignes, V., 317, 324.
Dessauer, F., 311, 316, 362, 455.
Developing time, Chart for determining, according to condition of developer, Edward Schons, 67.
DeWitt, C. H., 83, 183, 184, 270, 529.
Dextrose injection, intravenous, Combination of roentgen radiation and (abstract), E. G. Mayer, 183, 184.
Diabetes mellitus, Cholecystography in (abstract), M. K. Tedstrom, R. C. Bond, W. H. Olmsted, and Sherwood Moore, 175, 176.
Diabetic skin eruptions, Light therapy in (abstract), St. Rothman, 521.
Dickson, W. H., 266.
Dieterich, W., 311, 316.
Dingley, L. A., 2, 9, 13.
Dinsmore, R., 38.
Dislocation, Compound, of lower end of ulna (abstract), S. H. Corrigan and C. E. Corrigan, 366.
Displacement method, Sinus mapping by, A. W. Proetz and E. C. Ernst, 502.
Dixon, 484, 487.
"Doctors, Our," Maurice Duplay, reviewed, 525, 526.
Döderlein, 217, 219-221.
Dogelsek, 449.
Dognon, 328.
Dominguez, A. G., 256.
Donaldson, M., 257.
Donaldson, S. W., Examination of mastoids by using serial plate changer (original paper), 437.
Doremus ureometer, 254.
Dorno, K., 529.
Dosage, Remarks concerning the problem of (abstract), F. Dessauer, 362.
Doub, H. P., 142, 155, 159, 421, 426, 436, 527, 529. *See below.*
Doub, H. P., Bolliger, A., and Hartman, F. W., Relative sensitivity of kidney to irradiation (original paper), 142; discussion, 436. *See other references.*
Duane, William, 315, 329, 449.
Dubuque Medical and Surgical Clinic, 158.
DuFay (1733), 64.
Dukes, Cuthbert E., 256.
Dunham, Kennon, 154-156, 159, 492. *See below.*
Dunham, Kennon, Many roentgenologists are overlooking a great opportunity (editorial), 154, 155. *See other references.*
Dunn, John Shaw, 256.
Duodenal ulcer: comparison of roentgenologic and histologic findings, C. G. Sutherland, 111.
Duodenal ulcer: radiological aspect (abstract), W. H. Dickson, 265, 266.
Duodenum and stomach, Acute perforations of (abstract), F. B. McCarty, 529.
Duplay, Maurice, 525, 526.
Dyroff, R., 500, 527.

Eastman Kodak Co. exhibit, 160.
Ecker, Lewis C., Angina pectoris, with report of case treated with roentgen ray (original paper), 98.
Eckstein, H., 318, 324.
Education, medical, Rôle of roentgenology in (abstract), T. W. Todd, 270, 271.
Einhorn, Max, 127, 131, 332, 333.
Eisendrath, Daniel N., 420, 422. *See below.*
Eisendrath, Daniel N., and Arens, Robert A., Further study in normal pyelograms and value of bilateral simultaneous pyelography (original paper), 422. *See other reference.*
Electron in and out of roentgen tube and radium atom, D. C. A. Butts, F. C. Benson, Jr., J. W. Frank, 44.
Eller, Joseph J., 172.
Elliot, Thomas Benton, 427.
Elliott, A. E., and Kinney, Lyell C., Explosive fractures of upper end of humerus (original paper), 245.

Elliott, David C., 529.
Elliott, T. R., 2, 9, 13.
Elwyn, H., 2, 13.
Embryo, Normal development of, after roentgen-ray sterilization (abstract), M. Bolaffio, 89.
Emory University, Medical Department, 395, 396.
Employees' Mutual Benefit Association of Wisconsin, 307.
End-results (editorial), W. W. Wasson, 76.
Enfield, C. D., 170, 172, 174, 176-179.
Engeln Electric Co. exhibit, 160.
Engman, 174.
Epiphyseal union and age, 165.
Epiphysitis, non-tuberculous (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 411.
Epitheliomata, Superficial (abstract), C. J. Lunsford and L. Taussig, 268.
Erikson, 449.
Ernst, Edwin C., 155, 444, 466, 502. *See below.*
Ernst, Edwin C., and Proetz, Arthur W., Sinus mapping by displacement method (original paper), 502. *See other references.*
Ernst, of Milwaukee Health Department, Division of Tuberculosis, 158.
Erskine, Arthur W., 140, 326, 328. *See below.*
Erskine, Arthur W., X-ray therapy in functional thyroid disease (original paper), 140. *See other references.*
Erythema dose measured in physical units, Further studies on influence of radiation quality on, William H. Meyer and Otto Glasser, 311.
Erythema doses in roentgen units (abstract), Otto Glasser and W. H. Meyer, 532.
Erythema, skin, Regarding question of (abstract), L. Schall, 90.
Esophagus, carcinoma of, Application of radium to, Joseph Muir, 127.
Ether and chloroform, effect of, on diastolic heart size (Use of X-rays in study of physiology, Walter J. Meek), 372.
European publications, 443, 449.
Evans, 449.
Evans, Elida, 525.
Evans, J. A., 158.
Evans, J. S., 306.
Evans, William A., 143, 148.
Ewing, James, 216, 220, 464.
Exner, A., 127, 131.
Exophthalmos, Unilateral (editorial), Harry S. Gradle, 358-360.
Exostosis, H. W. Meyerding, 282.
Experimental animals. *See* Food irradiated with X-rays, Effects of, upon mice, Joseph K. Narat.
Eye, foreign bodies in, Failure of X-ray to detect (abstract), F. A. Morrison, 183.
Eye, Localization of foreign bodies in or about, H. P. Mills and W. W. Watkins, 336.
Eymer, H., 357.
Eyster, J. A. E., 27, 33, 300, 369, 370, 373, *See below.*
Eyster, J. A. E., Size of heart in normal and in organic heart disease (original paper), 300. *See other references.*

Failla, G., 444.
Fairhall, 464.
Fales, Louis H., 308, 309.
Fallopian tubes, Diagnostic value and therapeutic application of peruterine sufflation of, in cases of sterility (abstract), I. C. Rubin, 271.
Farinas, Pedro L., 256.
Farrar, Lilian K. P., 481.
Farrell, Benjamin P., 83.
Farrell, J. I., 144, 148.
Fibroma of uterus, Radium in treatment of (abstract), C. J. Miller, 92.
Fibromyoma of uterus, Myomectomy, hysterectomy, and radiotherapy in (abstract), J. C. Masson, 173, 174.
Field, C. Everett, 332, 335.
Films by Lewis Gregory Cole, 447.
Finsterer, 217.
Finzi, Nils, 128, 317, 324.
Fisher, Martin, 427.
Fisher, N. F., 145, 148.
Fistula, Parotid: case history, I. S. Trostler, 248.
Fistulæ, Lateral cervical (abstract), R. Kramer, 180.
Fitzwilliams, D. C. L., 418, 421.
Flaskamp, W., 527.
Flesher, Roy E., 83.
Flexner, Simon, 476.
Flexner-Jobling carcinoma, 465.
Food irradiated with X-rays, Effects of, upon mice, Joseph K. Narat, 41.
Foot and hand, Diagnosis and treatment of bone lesions of, with special reference to bone tumors, Max Kahn and L. C. Cohn, 289.
Forbes, H. H., 127, 128, 131.
Foreign bodies, Localization of, in or about eye, H. P. Mills and W. W. Watkins, 336.
Forestier, Jacques, 104, 171, 447, 489, 490, 492, 496, 498, 499, 509, 524.
Forssell, Gosta, 152, 218.
Fowler, Russel S., 71.
Fox, Harold R., 263.
"Fractures and Dislocations," Stimson, 366.
Fractures, Explosive, of upper end of humerus, L. C. Kinney and A. E. Elliott, 245.
Fraenkel, S. R., 368.
Francis, A., 484, 487.
François-Franck, Ch.-A., 101, 103.
Frank, J. W., Butts, D. C. A., and Benson, F. C., Jr., Electron in and out of roentgen tube and radium atom, 44.
Frank, K., 133, 139.
Franklin, E. C., 449.
Fraser, J. S., 38.
Freer, Otto T., 36.
Freiberg, 412.
French Screen Co. exhibit, 160.
Freundlich, 427.
Fricke, Robert E., 39, 158, 315, 444. *See below.*
Fricke, Robert E., Treatment of carcinoma of breast (original paper), 39. *See other references.*
Fried, 368.
Friedrich, W., 215, 220, 459, 532.
Fry, Hubert J. B., 256.
Fuerstenau intensimeter, Testing device for (abstract), W. Roever, 458.
Funsten, R. V., 133, 139.
Furst, W., 274.

Gabriel, G., 190, 194.
Gaertner, O., 455.
Gale, H. G., 449.
Gall bladder, new contrast substance for roentgenological visualization of, Regarding (abstract), B. O. Pribram, 126.
Gall bladder, New developments in our knowledge of (abstract), E. A. Graham, 527, 528.
Gall bladder, roentgenologic examination of, Relative value of cholecystography and so-called direct and indirect methods of (abstract), J. T. Case, 176.
Garnet test, 500.
Garvey, John L., and Glass, Robert L., Tabetic spinal osteo-arthropathy, 133.

Gasserian ganglion, Tumors of, with report of two cases of extracranial carcinoma infiltrating ganglion by direct extension through maxillary division (abstract), M. M. Peet, 366, 367.
Gastro-intestinal examination, Expectations and realizations from routine roentgenological (abstract), A. S. Kirkland, 528.
Gastro-intestinal examinations, Importance of teeth in routine, Francis B. Sheldon, 241.
Gaultier, R., 331, 334, 335.
Gauss, 174.
Geffcken, H., 182.
Geyer, C. W., 155, 159, 384.
Ghilarducci, 532.
Gile, H. H., 357.
Girsdansky, J., 2, 13.
Glascock, A. B., 39.
Glass, Robert Lee, and Garvey, John L., Tabetic spinal osteo-arthropathy, 133.
Glasser, Otto, 311, 516, 517, 532. *See below.*
Glasser, Otto, and Meyer, William H., Further studies on influence of radiation quality on erythema dose measured in physical units (original paper), 311. *See other references.*
Glocker, R., 121, 122, 125, 175, 311, 315, 316, 432.
Gocht, H., 317, 324.
Goiter, Exophthalmic (abstract), B. J. Sanger, 172.
Goiter, exophthalmic, Radiation treatment of (abstract), H. Swanberg, 184.
Gold, colloidal. *See* Colloids, Metallic, in treatment of cancer: preliminary report, Albert Soiland, William E. Costolow, and Orville N. Meland, 469.
Gonorrhea, Concerning treatment of inflammatory diseases of adnexa, particularly of, with roentgen rays (abstract), W. Baer, 365.
Goodwin, P. B., 77.
Goodyear, H. M., 509.
Gordon, John E., 178.
Gordon, J. K. M., 104, 489, 491, 510. *See below.*
Gordon, J. K. M., Whyte, Bruce, and Pritchard, Stuart, Conclusions regarding technic following 1,000 intratracheal injections of iodized oil in adults (original paper), 104, 510. *See other references.*
Gradle, Harry S. (editorial), 360.
Gragert, O., 182.
Graham, E. A., 176, 528.
Gramegna, A., 318, 324.
Granger, Amedee, 155, 159, 509, 511.
Gray, H. T., 115, 116.
Greene, 401.
Greene, D. C., 131.
Greenough, Robert B., 217, 219, 264, 416, 420, 421, 444.
Greenwood, Major, 256.
Grimm, Homer W., Mediastinal teratoma: case report, 438.
Groedel, F. M., 27, 169, 173.
Groover, T. A., 143, 148.
Grote, Henry, 77.
Grubbe, 204.
Gruhn, E., 311, 316, 328.
Grumach, 27.
Grunmach, E., 317, 324.
Guilleminot, H., 318, 324.
Guthmann, H., 174.
Gye, 96, 97, 452, 453, 466, 478.
Gye, New research in etiology of cancer, with reference to work of (abstract), M. J. Sittenfield, 452, 453.
Gynecologic diseases, Stimulating radiotherapy in (abstract), L. Seitz, 458, 459.
Gynecology, Iodized oil and pneumoperitoneum in, I. F. Stein and R. A. Arens, 494.
Gynecology, iodized oil (iodipin) as diagnostic aid in, Use of (abstract), Q. U. Newell, 274, 275.
Gynecology, Roentgenotherapy of inflammatory diseases in (abstract), G. A. Wagner, 367, 368.

Haden, Russell L., 243.
Haehn-Biedermann, 169.
Hagans, Frank M., 226, 229.
Haike, 398.
Halberstaedter, L., 460, 532.
Hamman, Louis, 99, 101, 102.
Hand and foot, Diagnosis and treatment of bone lesions of, with special reference to bone tumors, Max Kahn and L. C. Cohn, 289.
Handley, W. Sampson, 257.
Hanford, C. W., 129, 131.
Hanovia Chemical and Manufacturing Co. exhibit, 160.
Hanson, Charles, 161.
Harding, M. C., 245.
Hargis, E. H., 111, 112, 116.
Harris Clinic, Ft. Worth, Texas, 158.
Harris, T. J., 34, 38.
Harrison, G. R., 458.
Hartman, F. W., 142, 155, 436. *See below.*
Hartman, F. W., Bolliger, A., and Doub, H. P., Relative sensitivity of kidney to irradiation (original paper), 142; discussion, 436. *See other references.*
Hartung, Adolph, 391, 488, 491, 492. *See below.*
Hartung, Adolph, Diagnostic value of iodized oil in intra-thoracic lesions (original paper), 488. *See other references.*
Harvard Medical School Laboratory for Surgical Research, 171.
Hausmann, W., 529.
Hausser, K. W., 189, 194.
Hay-fever, 483.
Hayman, J. M., Jr., 317, 324.
Head, Jerome R., 491.
Healy, William P., 219, 222, 444.
Heart, Fluoroscopic study of, Robert W. Langley, 27.
Heart, Size of, in normal and in organic heart disease, J. A. E. Eyster, 300.
Heart's reaction to hemorrhage (Use of X-rays in study of physiology, Walter J. Meek), 369.
Heberden, William, 98, 102.
Hedblom, Carl A., 491.
Heidenhain, L., 367, 368.
Heimann, F., 274.
Heinismann, J. I., 357.
Hektoen, L., 414.
Hemorrhagia in retina, Treatment of, with roentgen rays (abstract), R. Hessberg, 87.
Henderson, Melvin S., 90.
Herbst, Robert H., 532.
Herpel, Frederick K., 509.
Herrenschmidt, A., 335.
Herriman, Frank R., 38.
Hesnard, A., 317, 318, 324.
Hess, 457.
Hess, A. F., 41, 43.
Hessberg, R., 87.
Hettich, William G., 159.
Heublein, Arthur C., 445.
Heuser, Carlos, 447, 448, 495.
Heyde, 90 (2 refs.)
Heyerdahl, S. A., 225, 229.
Heyman, H. V. James, 219, 222.
Hickey, P. M., 137, 158, 379, 392, 393, 441-443. *See below.*
Hickey, P. M., Function of local roentgen society (editorial), 441-443. *See other references.*

Hickey, Preston M., Post-graduate instruction in roentgenology (original paper), 379. *See other references.*
High frequency currents, Physical characteristics and physiological effects of, A. Mutscheller, 427.
High tension and ray-proof treatment apparatus, New (abstract), H. Holfelder, 179.
High Tension Co. exhibit, 161.
Hill, G. William, 128, 131, 132.
Hip, arthritisms of, Radiologic findings concerning certain (abstract), P. Moulonguet, 269.
Hip, Congenital dislocation of (abstract), B. P. Farrell, H. L. Von Lackum, and A. De F. Smith, 83.
Hippocrates (quoted), 95.
Hirsch, E. F., 415.
Hirsch, I. Seth, 156, 254-256, 391-393, 433-435.
Hirschboeck, 2.
Hirtz, 509.
Hjalmar, 449.
Hodges, F. J., 300, 306.
Hodges, F. M., 443.
Hodges, Paul C., 27, 33, 300, 303, 306, 369, 371.
Hodgkin's disease, with especial reference to treatment by irradiation (abstract), C. F. Burnam, 176, 177.
Holden, 398.
Holder, Sir Thomas, 257.
Holfelder, H., 179.
Holland, C. Thurstan, 257.
Holmes, George W., 2, 13, 92, 264, 357, 361.
Holmes, William H., 133, 139.
Holthusen, H., 362, 533.
Holweck, 449.
Holzknecht, Guido, 368.
Hooker, 370, 373.
Hopf, 41-43.
Hopwood, F. L., 257.
Horlick's Malted Milk Corporation exhibit, 161.
Horsley, Victor, 317, 324.
Hosmer, W. R., 161.
Hospitals—
Battle Creek San., 456.
Bellevue, New York, 20-26.
Henry Ford, Detroit, 477.
Howard A. Kelly, Baltimore, 158.
Huntington Memorial, Boston, 416.
Johns Hopkins, Baltimore, 289.
Massachusetts General, Boston, 264.
Memorial, New York, 35, 128, 130, 132, 333, 335, 419, 420, 476.
Methodist, Madison, Wis., 156.
Middlesex (England), 2.
Post-graduate, New York, 38, 127.
Royal Victoria, Montreal, 364.
St. Mary's, Madison, Wis., 156.
University, Ann Arbor, Mich., 133, 387.
Wisconsin General, Madison, 156, 372.
Woman's, in State of New York, 481.
See Mayo Clinic, etc.
Hot Cathode Tube Situation, Report of Committee to Investigate, 166.
Houser, K. M., 317, 324.
Hubeny, M. J., 240, 243, 355, 356, 509, 517.
Huber, Carl, 393.
"Human Anatomy," Morris, 150.
Humerus, Explosive fractures of upper end of, L. C. Kinney and A. E. Elliott, 245.
Hunt, Alice M., 2, 13.
Hunt, Franklin L., 117, 444. *See below.*
Hunt, Franklin L., and Temin, Morris, X-ray protective plasters (original paper), 117. *See other reference.*
Hunter, John, 100.
Hydrocephalus simulating brain tumor, Case of (abstract), A. W. Young, 368.
Hypernephroma, Calcified, of kidney: report of case diagnosed by X-ray examination, with discussion of differential diagnosis of renal shadows (abstract), Aaron Arkin, 26.
Hyperthyroidism, Radium treatment of, Joseph Muir, 223.
Hypophysis, tumors of, Roentgenotherapy of (abstract), J. I. Heinismann and L. J. Czerny, 357.
Hysterectomy, Myomectomy, and radiotherapy in fibromyoma of uterus (abstract), J. C. Masson, 173, 174.

Ide, Charles E., Correlation of X-ray plates, clinical findings and blood pressure readings in series of 300 cases, 307.
Imperatori, C. J., 36, 38.
Indians, study of, as to sinuses, 398.
Infants and children, Bone diseases in, Philip Lewin and E. L. Jenkinson, 409.
Inflammations, Roentgen irradiation and (abstract), L. Heidenhain, 367, 368.
Inflammatory diseases in gynecology, Roentgenotherapy of (abstract), G. A. Wagner, 367, 368.
Inflammatory diseases, On roentgen treatment of (abstract), F. Pordes, 368.
Inflammatory processes, surgical, On roentgen treatment of (abstract), S. R. Fraenkel and L. M. Nissnjewitsch, 368.
Inglehart, M., 264, 268, 271, 274, 276, 357, 367.
Insurance, *see* Malpractice insurance question.
Internationale Radiotherapie, 525.
Intestines, gas cysts of, Radiologic diagnosis of (abstract), Bonnamour, Badolle, and Beaupere, 275.
Intra-thoracic lesions, Diagnostic value of iodized oil in, Adolph Hartung, 488.
Intratracheal injections of iodized oil in adults, Conclusions regarding technic following 1,000, Stuart Pritchard, Bruce Whyte and J. K. M. Gordon, 104.
Intratumoral treatment (abstract), L. Halberstaedter, 460
Iodized oil and pneumoperitoneum in gynecology, I. F. Stein and R. A. Arens, 494.
Iodized oil as aid in diagnosis of chronic sinusitis and of maxillary cysts (abstract), P. B. MacCready, 487.
Iodized oil, Conclusions regarding technic following 1,000 intratracheal injections of, in adults, Stuart Pritchard, Bruce Whyte and J. K. M. Gordon, 104.
Iodized oil in intra-thoracic lesions, Diagnostic value of, Adolph Hartung, 488.
Iodized oil (iodipin), Use of, as diagnostic aid in gynecology (abstract), Q. U. Newell, 274, 275.
Iodized oil with reference to bronchiectasis (abstract), Bruce Whyte, 456.
Ionization, Regarding path and effect of, in therapy (abstract), H. Picard, 178.
Irradiated milk: its effect on blood (abstract), Veronica Dawkins and C. Lee Pattison, 457, 458.
Irradiation, Hodgkin's disease, with especial reference to treatment by (abstract), C. F. Burnam, 176, 177.
Irradiation of diseased tonsils (abstract), J. Coleman Scal, 273.
Irradiation of ovaries and offspring (abstract), H. Martius, 530.
Irradiation of ovaries and offspring (abstract), L. Nuernberger, 530.

Irradiation, Relative sensitivity of kidney to, H. P. Doub, A. Bolliger, and F. W. Hartman, 142; discussion, 436.
Irradiation, Total, of human body with roentgen rays (abstract), A. von Liebenstein, 457.
Irradiation upon generative organs and offspring, Present status of our knowledge of effect of (abstract), H. J. Bagg, 451.
d'Irsay, Stephen, 308, 309.
Irwin, 401.
Ivy, A. C., 144, 148, 248, 436.

Jackson, Byron H., 434, 435.
Jackson, Chevalier, 3, 8, 10, 13, 36, 38, 127, 132.
Jackson Clinic, Madison, Wisconsin, 156.
Jackson, C. M., 150.
Jackson, Reginald H., Radiology in group practice (editorial), 250-254.
Jagoda, S., 101, 103.
Janeway, Henry H., 128, 130, 333, 335.
Jansen, 412.
Jarre, H. A., 156.
Jaw, lower, Carcinoma of (abstract), Douglas Quick, 421.
Jeancon, J. A., 398.
Jenkinson, Edward L., and Lewin, Philip, Bone diseases in infants and children, 409.
Jenner, 100.
Jensen's rat sarcoma, 45.
Jerman, E. C., 156, 159.
Johannessen, C. J., 158.
Johnson, 204.
Johnson, Clayton R., Mensuration and localization by means of roentgen ray, 518.
Johnson, J. M., 445.
Johnson, Paul E., Inc., exhibit, 161.
Johnson, Raymond, 421.
Johnston, of Dubuque Medical and Surgical Clinic, 158.
Johnston, Zoe Allison, Treatment of nevi with radium, 292.
Jones, Chester M., 167.
Jonnesco, T., 98, 101-103.
Jorstad, L. H., 155, 466.
Josefsberg, I., 269, 272, 275.
Julien, of Nice, 332.

Kahn, Max, and Cohn, L. Clarence, Diagnosis and treatment of bone lesions of hand and foot, with special reference to bone tumors, 289.
Kaplan, Ira I., 20, 445. *See below.*
Kaplan, Ira I., Plan and scope of radiation therapy service at Bellevue Hospital, New York City (original paper), 20. *See other reference.*
Karrer, E. H., Co. exhibit, 161.
Karshner, R. G., 27, 33.
Kaupp, E., 122, 175, 316.
Kaye's "X-rays," 387.
Keene, 219.
Kelley-Koett Mfg. Co. exhibit, 162.
Kelly, H. A., 219.
Kelly, I. D., 8.
Kendall, Edward C., 94.
Kennaway, Ernest L., 256.
Kennicott, R. H., 27, 33.
Kerley, Peter J., 256.
Kerr, Robert M., 438.
Kettle, E. H., 257.
Kidner, Frederick C., 84.
Kidney, Calcified hypernephroma of: report of case diagnosed by X-ray examination, with discussion of differential diagnosis of renal shadows (abstract), Aaron Arkin, 26.
Kidney, Relative sensitivity of, to irradiation, H. P. Doub, A. Bolliger, and F. W. Hartman, 142; discussion, 436.
Kienböch, 90.
(Kienböch's disease): Chronic osteitis of semilunar bone (abstract), M. S. Henderson, 90.
Kimbrough, J. R., 129, 132.
Kinney, Lyell C., and Elliott, A. E., Explosive fractures of upper end of humerus, 245.
Kinsella, Ralph, 7.
Kirkendall, B. R., 421.
Kirkland, A. Stanley, 457, 528.
Klauder, J., 194.
Klemperer, Paul, 173.
Kloevekorn, G. H., 455.
Knox, Robert, 257.
Kodama, 527.
Koeppe, Hans, 183.
Koernicke, 45.
Kogan-Jasny, V., 366.
Kohl, F., 182.
Kolmer, John A., 241.
Koose, W., 89.
Kramer, Rudolph, 180.
Krause, P., 532.
Krauss, 111.
Kress, 220.
Kroenig, 215, 217, 220.
Krog, Otto, 160.
Krogh, 370, 373.
Kruchen, C., 532.
Kuestner Eichstandgeraet instrument, 315.
Kuestner, H., 316.
Kuno, 371, 373.

Labey, G., 331, 334, 335.
Laborde, Mme., 331, 335.
Lacerations, importance of, in producing cancer of cervix, etc. (abstract), L. K. P. Farrar, 481.
Laibe, Joseph E. F., 179.
Landauer, R. S., 512, 516, 517. *See below.*
Landauer, R. S., Use of dental films in determination of stray radiation (original paper), 512. *See other references.*
Lane-Claypon, Janet E., 217 (incorrectly spelled Lane-Clayton); 421.
Langley, Robert W., Fluoroscopic study of heart, 27.
Laquerriere, A., 318, 324.
Larynx, Cancer of, 34.
Laughlin, G. F., 496, 499.
Lawrence, W. S., 156.
Lazarus-Barlow, W. S., 257, 454.
Lead. *See under* Cancer problem with reference to recent developments, M. J. Sittenfield, 465.
Lead, Colloidal, in treatment of cancer, 461-481.
Lead, colloidal, Use of, in treatment of cancer after method of W. Blair Bell, H. J. Ullmann, 461.
Lee, B. J., 217, 419-421.
Lee, Walter E., 3, 8, 10, 13.
Leeming, 454.
LeFevre, Walter I., 166.
Legg, 412.
Legg-Calvé-Perthes' disease (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 411, 412.
Legg-Perthes' disease, Unusual case of (abstract), F. C. Kidner, 84.
Legueu, Felix, 425.
Lehman, Edwin P., 175.

Leist, M., 364.
Leitch, Archibald, 257, 475.
Lenard, 77.
Leonard, 204.
Leonard, C. L., 318, 324.
Leucutia, T., 143, 148.
Leukemia, acute, and infectious mononucleosis, Concerning confusion between, with report of case of acute lymphoblastic leukemia, with remission (abstract), H. P. Schenck and O. H. P. Pepper, 530, 531.
Leukemia, Acute lymphatic: case report (abstract), A. S. Kirkland, 457.
Levi, Irwin P., 27, 33.
Levin, Isaac, 444.
Levine, S. A., 98, 99, 102, 103.
Levy-Dorn, 27.
Levyn, Lester, 158.
LeWald, L. T., 158, 392, 393.
Lewin, C., 127, 132.
Lewin, Philip, and Jenkinson, Edward L., Bone diseases in infants and children, 409.
Lewis, F. O., 38.
Lewis, Sir Thomas (quoted), 100, 103.
Leyda, James, 407.
Liberson, Frank, 263.
Library exhibit, 156.
Lichtheim, 10, 13.
Liebel-Flarsheim Co. exhibit, 162.
Liebersohn, J. G., 366.
von Liebenstein, A., 457.
Liechti, 532.
Light, Old and new experimental investigations regarding effect of (abstract), H. Meyer, 85.
Light therapy in diabetic skin eruptions (abstract), St. Rothman, 521.
Lindsay, George A., 381, 387. *See below.*
Lindsay, George A., Studies in physics of X-rays for students in medicine (original paper), 387. *See other reference.*
Lipiodol, 491.
Lipiodol as adjunct to tubal inflation in diagnosis of sterility (abstract), L. M. Randall, 266.
Lipiodol, Diseases of chest demonstrated by (abstract), A. Howard Pirie, 452.
Lipiodol, Injection of pilonidal cyst with, Julius Brams, 248.
Lipiodol, Uterotubal roentgenography with (abstract), I. C. Rubin and A. J. Bendick, 179, 180.
Lipiodol. *See* Iodized oil.
Lipiodol. *See under* "Radiology of Gynecology, Obstetrics, and Urology" (reviewed), 447.
Liver, Measurement of, by means of roentgen rays: based upon study of 502 subjects (abstract), G. E. Pfahler, 453.
Livingston, S. F., 173.
Localization and mensuration by means of roentgen ray, Clayton R. Johnson, 518.
Localization of foreign bodies in or about eye, H. P. Mills and W. W. Watkins, 336.
Lockhart-Mummery, J. P., 257, 454, 455.
Loeb, Hanau W., 509.
Longet, M., 13.
Loucks, R. E., 226, 229, 445.
Ludwig, 41-43.
Lues (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 410.
Luettge, 262.
Lung, Massive collapse of, with report of three unusual cases, L. R. Sante, 1.
Lung, Primary carcinoma of (abstract), H. W. Cave, 531.
Lungs and pleura, Reaction of, to roentgen rays (abstract), A. U. Desjardins, 273, 274.
Lunsford, C. J., 268.
Lymphoblastomas, Unusual manifestations of (abstract), G. W. Holmes, 91, 92.

McCarthy, J. E., 144, 148.
McCarty, Franklin B., 529.
MacCarty, William C., 94, 114-116, 277, 291, 417, 421. *See below.*
MacCarty, William C., Key to diagnosis and prognosis of neoplastic lesions of bones (original paper), 277. *See other references.*
MacCready, Paul B., 487.
McHutchinson, John, 296.
McIntosh Electric Corporation exhibit, 161.
McKee, 297, 514.
MacKee, George M., 172, 191, 194.
MacKellar, W. C., 161.
MacKenzie, David W., 365.
McKinney, J. T., 530.
McLean, 296.
McLennan, 449.
McMeans, J. W., 439.
Machlett, Robert H., sketch of, 254.
Mackay, Hugh, 432.
Mackenzie, Sir James, 98-103.
Maclaire, 509.
Malignancies, skin, X-ray therapy in, J. M. Martin, 204.
Malignant disease of upper air and food passages, Treatment of. III.—Treatment by radium (abstract), W. Milligan, 267.
Malignant growths of lower urinary tract (abstract), D. W. MacKenzie, 364, 365.
Malignant neoplasms in man, inoperable, On results of radiochemical treatment of (abstract), R. Werner, 432.
Mall, 150.
Mallet-Guy, Pierre, 167.
Malpractice insurance question, I. S. Trostler, 14; discussion, 433.
Manchester (England) and District Radium Institute, 224.
Mandible, Effect of roentgen rays and radium upon (abstract), M. Leist, 364.
Marie, Charles, 443, 444.
Markley, A. J., 262.
Marquette University, Milwaukee, 159.
Marshfield Clinic (Potter), 158.
Martin, Ancil, 336.
Martin, C. J., 257.
Martin, C. L., 144, 145, 148, 169, 219, 222.
Martin, F. V., 158.
Martin, J., 194.
Martin, J. M., 155, 204. *See below.*
Martin, J. M., X-ray therapy in skin malignancies (original paper), 204. *See other reference.*
Martius, H., 530.
Martland, Harrison S., 33, 468.
Masson, James C., 174.
Mastitis, Treatment of, with roentgen rays (abstract), E. Zweifel, 456.
Mastoids, Examination of, by using serial plate changer, S. W. Donaldson, 437.
Mathews, A. P., 449.
Mattick, Walter, 219, 222.
May, associate of H. Wintz, 500.
Mayer, E. G., 184.
Mayer, Edgar, 361.

Mayo Clinic, 111, 116, 129, 156, 176, 242, 272, 282, 291, 416, 471.
Mayo, William J., Surgical treatment of cancer, 93.
Mediastinal teratoma: case report, H. W. Grimm, 438.
Mediastinal tumors, Regarding roentgen-ray treatment of (abstract), I. Schaaff, 85.
Medlar (Wisconsin General Hospital), 372.
Meek, Walter J., Use of X-rays in study of physiology, 369.
"Mekapion," an integrating roentgen dosimeter with autocontrol (abstract), S. Strauss, 436.
Melicow, M. M., 357.
Meland, Orville N., Soiland, Albert, and Costolow, William E., Metallic colloids in treatment of cancer: preliminary report, 469.
Mendel, 106.
Menees, Thomas O., 333-335.
Menopause, Radiotherapeutic: its significance and management (abstract), J. A. Corscaden, 170, 171.
Menstrual disorders, Treatment of (abstract), Emil Novak, 275, 276.
Mensuration and localization by means of roentgen ray, Clayton R. Johnson, 518.
Merrill, E. F., 27, 33.
Merritt, E. A., 102.
Mertz, 262.
Meyer, H., 85, 532.
Meyer, William H., 311, 532.
Meyer, William H., and Glasser, Otto, Further studies on influence of radiation quality on erythema dose measured in physical units, 311.
Meyerding, Henry W., 156, 159, 282. *See below.*
Meyerding, Henry W., Exostosis (original paper), 282. *See other references.*
Michigan, University of, 158.
Middleton, 370, 373.
Miescher, G., 186, 190, 193, 194.
Mikulicz's disease, Regarding roentgen therapy of (abstract), J. Ziegler, 175.
Mikulicz's disease, Two cases of, treated with radium (abstract), A. E. H. Pinch, 91.
Milk, Irradiated: its effect on blood (abstract), Veronica Dawkins and C. Lee Pattison, 457, 458.
Miller, C. Jeff, 92.
Miller, E. W., 309.
Milligan, Sir William, 268.
Millikan, 44, 449.
Mills, H. P., 156, 336. *See below.*
Mills, Harlan P., and Watkins, W. Warner, Localization of foreign bodies in or about the eye (original paper), 336. *See other reference.*
Mills, R. Walter, 129, 132, 149.
Miloslavich, E. L., 159.
Milwaukee Annual Meeting, scientific exhibit, 155-159; commercial exhibit, 159-165.
Milwaukee County Radiological Society, 159.
Milwaukee Health Department, Division of Tuberculosis, exhibit, 158.
Minkley, H. F., 186.
Minot, George R., 444, 464.
Mitchell, 401.
Mocquot, P., 335.
Möncheberg, Professor, of Strassburg, 308.
Mononucleosis, infectious, and acute leukemia, Concerning confusion between, with report of case of acute lymphoblastic leukemia, with remission (abstract), H. P. Schenck and O. H. P. Pepper, 530, 531.
Montgomery, L. C., 366.
Moody, 385.
Mooney, B. R., 531.
Moore, Sherwood, 176.
Moran, Tressa R., 33, 92, 120, 169, 170, 173, 176, 180, 263, 264, 364, 440, 451-453.
Moritz, 27.
Morris's "Human Anatomy," 150.
Morrison, Frank A., 183.
Morrow, 296.
Morse, Russell W., 149, 156. *See below.*
Morse, Russell W., and Cole, Lewis Gregory, Anatomy of normal small intestine as observed roentgenographically (original paper), 149. *See other reference.*
Moses, Homer Clifton, 522.
Mouchet, Albert, 272.
Moulonguet, P., 269.
Mueller, O., 185, 189, 191, 194.
Muenster, University of, Roentgen therapy department of medical clinic of (abstract), P. Krause and C. Kruchen, 532.
Muir, Joseph, 34, 127, 223, 273, 330, 416, 460. *See below.*
Muir, Joseph, Application to laryngeal cancer (original paper), 34; Application of radium to carcinoma of esophagus (original paper), 127; Radium treatment of hyperthyroidism (original paper), 223; Gastric carcinoma treated by radium application (original paper), 330; Value of radium in treatment of mammary carcinoma (original paper), 416.
Mulligan, P. B., 73.
Mullin, W. V., 407, 482. *See below.*
Mullin, W. V., Rhinological aspect of bronchial asthma (original paper), 482. *See other reference.*
Mumford, E. B., 88.
de Muralto, 111.
Murphy, 216, 220.
Murphy, John B., 204.
Murray, J. A., 257.
Mustard oil, Regarding radiotherapeutic sensitization with (abstract), G. Schwarz, 364.
Mutscheller, A., 121, 327, 427, 432, 513, 516. *See below.*
Mutscheller, A., Physical characteristics and physiological effects of high frequency currents (original paper), 427. *See other references.*
Mutscheller, A., Uniform voltage *vs.* pulsating currents in clinical deep therapy (original paper), 121. *See other references.*
Myomectomy, hysterectomy, and radiotherapy in fibromyoma of uterus (abstract), J. C. Masson, 173, 174.

Nakahara, 220.
Nakashima, Y., 456.
Narat, Joseph K., Effects of food irradiated with X-rays upon mice, 41.
Nasal accessory sinuses, Developmental study of, W. W. Wasson, 398.
Nasal sinuses, Displacement irrigation of: new procedure in diagnosis and conservative treatment (abstract), A. W. Proetz, 268, 269.
See also under Sinus.
National Intensifier Co. exhibit, 162.
Neeff, Th., 432.
Neill, William, Jr., 170, 445.
Neoplasms, Pulmonary: discussion of increasing prevalence, diagnosis and treatment (abstract), C. E. Atkinson, 266, 267.
Neoplasms, vesical, Irradiation of, by removable platinum radon seeds: description of new instruments designed to facilitate their employment (abstract), Joseph Muir, 459, 460.

Neoplastic lesions of bones, Key to diagnosis and prognosis of, W. C. MacCarty, 277.
Nervous system, central, Effect of roentgen rays on (abstract), A. Rachmanow, 84, 85.
Neurofibromatosis, Recklinghausen's, and skeleton: plea for complete study of the disease (abstract), E. P. Lehman, 174, 175.
Nevi, Treatment of, with radium, Z. A. Johnston, 292.
New York University and Bellevue Hospital Medical College, 158.
Newcomet, W. S., 36, 38.
Newell, Quitman U., 275, 498, 499.
Newton, F. C., 103.
Nichols, Bernard H., 159.
Niekau, B., 185, 189, 193, 194.
Nissnjewitsch, L. M., 368.
Nogier, 216, 220.
Norris, 67, 69.
Norsworthy, C. E., 444.
Northern Association for Medical Radiology (Second Congress, Copenhagen), 225.
Novak, Emil, 275, 276.
Nuernberger, L., 530.

O'Bannon, R. P., 158.
Ochsner, 469.
Ochsner, Alton, 492, 510.
Offspring and generative organs, effect of irradiation upon, Present status of our knowledge of (abstract), H. J. Bagg, 451.
Offspring and ovaries, Irradiation of (abstract), H. Martius, 530.
Offspring and ovaries, Irradiation of (abstract), L. Nuernberger, 530.
Offspring, injury to, by roentgen rays, Experimental contributions to question of (abstract), R. Dyroff, 527.
Offspring, injury to, by roentgen rays, Regarding question of (abstract), W. Flaskamp, 527.
Oils, Some brominized, for radiographic use: preliminary report (abstract), T. J. Putnam, 171.
Olmsted, W. H., 176.
O'Malley, 398.
Orndoff, Benjamin H., 144, 148, 248, 436, 500, 501.
Orthodiagraphy, 27.
Osler, Sir William, 102, 103.
Osteitis, Chronic, of semilunar bone (Kienböch's disease), M. S. Henderson (abstract), 90.
Osteo-arthritis, luetic, Case of, involving first and second cervical vertebræ, with partial destruction of odontoid process, Joseph Aspray, 72.
Osteo-arthropathy, Tabetic spinal, with report of 4 cases, John L. Garvey and Robert L. Glass, 133.
Osteochondritis deformans coxa juvenilis (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 412.
Osteomata of lower end of tibia (abstract), E. Weinberg, 88.
Osteomyelitis (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 413.
Osteopathy, Trophic (abstract), E. B. Mumford, 87, 88.
Ovaries and offspring, Irradiation of (abstract), H. Martius, 530.
Ovaries and offspring, Irradiation of (abstract), L. Nuernberger, 530.
Ovary, sarcoma in, and uterus, special consideration of development of: Further contributions to question of tumor formation after roentgen-ray sterilization (abstract), E. Vogt, 182, 183.

Paget's disease (abstract), H. B. Philips, 82.
Paleopathology, Study in, Frank B. Young and Albert L. Cooper, 230.
Palmer, 449.
Pancoast, H. K., 36-38, 445.
"Pancreatitis Chroniques avec Ictere" (review), 167.
Pannett, Charles A., 256.
von Pannewitz, G., 493.
Papillomata of skin, Radiographic simulation of renal calculi by (abstract), M. M. Melicow and H. H. Gile, 357.
Parache, 219.
Parotid fistula: case history, I. S. Trostler, 248.
Parrish, Robert E., 181.
Parrisius, 194.
Pasteur, W., 2, 3, 8, 9, 13.
Patrick, Hugh T., 133, 139.
Patterson Screen Co. exhibit, 162.
Pattison, C. Lee, 457, 458.
Patton, James M., 336.
Peet, Max M., 367.
Pendergrass, E. P., 317, 324.
Pennington, J. R., 318, 324.
Pepper, O. H. Perry, 531.
Percy, James F., 94.
Periostitis, Syphilitic, of cervical vertebræ and right clavicle (abstract), L. C. Montgomery, 365.
Perkins, C. W., 264.
Perrin, 427.
Perry, Miss E. S., 186.
Perry, Gentz, 158.
Perthes, 412.
Peruterine sufflation, Diagnostic value and therapeutic application of, of fallopian tubes in cases of sterility (abstract), I. C. Rubin, 271.
Pettit, Roswell T., 77.
Pfahler, George E., 35, 38, 191, 194, 204, 213, 215, 327-329, 419, 421, 444, 453, 509, 516, 517. *See below.*
Pfahler, George E., X-rays and radium in fight against cancer (original paper), 215. *See other references.*
Phemister, D. B., 84, 178, 276, 411.
Philips, Herman B., 82, 103.
"Physician, History of the," 79.
Physicians' Home, Inc., 79.
Physics of X-rays, Studies in, for students in medicine, George A. Lindsay, 387.
Physiology, Use of X-rays in study of, Walter J. Meek, 369.
Physiotherapy, Practice of (review), 166.
Phytobezoar diospyri virginianæ: with report of case (abstract), William B. Porter and J. T. McKinney, 529, 530.
Picard, H., 178.
Picker, James, Inc., exhibit, 163; information from, relative to Lewis Gregory Cole's films, 447.
Piffard, 255.
Pilonidal cyst, Injection of, with lipiodol, Julius Brams, 248.
Pinch, A. E. Hayward, 91, 127, 332, 335.
Pirie, A. Howard, 357, 437, 452, 509.
Pirquet reaction, Changes of, under influence of various doses of roentgen rays (abstract), J. G. Liebersohn and I. I. Schimanko, 366.
Plasters, X-ray protective, F. L. Hunt and Morris Temin, 117.
Plate, face of, Simple method for knowing, taken in cassette, Thomas D. Cantrell, 439.
Pleura and lungs, Reaction of, to roentgen rays (abstract), A. U. Desjardins, 273, 274.
Plummer, S. C., 415.
Plutarch, 64.
Pneumoencephalomyelography, Value and safety of simplified method of: preliminary report on use of special apparatus in 40 cases (abstract), Frank Liberson, 263.

Pneumonia, 1.
Pneumonic consolidations, Resolution in (abstract), R. G. Allison, 451, 452.
Pneumoperitoneum and iodized oil in gynecology, I. F. Stein and R. A. Arens, 494.
Pneumothorax, 1.
Pohle, E. A., 85, 87, 89-91, 126, 169, 173-175, 178-185, 262, 270, 273, 357, 362, 364-366, 368, 432, 436, 455-460, 493, 521, 527, 529-533. *See below.*
Pohle, Ernst A., Studies of the roentgen erythema of the human skin. II. Skin capillary changes after exposure to filtered roentgen rays and to ultra-violet radiation (original paper), 185. *See other references.*
Poirier, 533.
Politzer, G., 178.
Polkey, Hugh J., 532.
Pomeroy, L. A., 444.
Pordes, F., 368.
Porter, J. L., 412.
Porter, William B., 530.
Potter Metabolic Clinic, 461.
Potter, of Marshfield Clinic, 158.
Pribram, B. O., 126.
Pritchard, Stuart, 104, 155, 489, 491, 510. *See below.*
Pritchard, Stuart, Whyte, Bruce, and Gordon, J. K. M., Conclusions regarding technic following 1,000 intratracheal injections of iodized oil in adults (original paper), 104; discussion, 510. *See other references.*
Probstein, J. G., 5.
Proetz, Arthur W., 155, 268, 269, 502, 509-511. *See below.*
Proetz, Arthur W., and Ernst, Edwin C., Sinus mapping by displacement method (original paper), 502. *See other references.*
Prostate, Carcinoma of: clinical study of 1,000 cases (abstract), H. C. Bumpus, Jr., 272.
Prostate, carcinoma of, Metastasis in, with report of case showing early and late changes (abstract), John Sproull, 440.
Protection against radiation and its improvement, Regarding (abstract), Th. Neeff, 432. *See also under* Radiation, stray, etc., *and* Plasters, X-ray protective.
Pulmonary neoplasms: discussion of increasing prevalence, diagnosis and treatment (abstract), C. E. Atkinson, 266, 267.
Pusey, 204.
Putnam, Tracy J., 171.
Py, E., 318, 324.
Pyelograms, normal, Further study in, and value of bilateral simultaneous pyelography, D. N. Eisendrath and R. A. Arens, 422.

Quick, Douglas, 35, 38, 128, 130, 132, 155, 159, 421, 445, 475, 479, 480.
Quigley, T. D., 445.
Quimby, Edith, 512, 513, 516.

Rachmanow, A., 85.
Radiation, Experiments concerning principal mechanism of biological effect of (abstract), Y. Nakashima, 455, 456.
Radiation, protection against, Regarding, and its improvement (abstract), Th. Neeff, 432.
Radiation quality, Further studies on influence of, on erythema dose measured in physical units, William H. Meyer and Otto Glasser, 311.
Radiation, stray, Use of dental films in determination of, R. S. Landauer, 512.
Radiation therapy service at Bellevue Hospital, New York City, Plan and scope of, Ira I. Kaplan, 20.
Radiation treatment of exophthalmic goiter (abstract), H. Swanberg, 184.
Radio-active substances: their therapeutic uses and applications, Joseph Muir; Application of radium to laryngeal cancer, 34; Application of radium to carcinoma of esophagus, 127; Radium treatment of hyperthyroidism, 223; Gastric carcinoma treated by radium application, 330; Value of radium in treatment of mammary carcinoma, 416.
Radio-activity, Microscopic changes of certain anemias due to (abstract), H. S. Martland, 33.
Radio-activity, Numerical Data on, Miss I. Curie and J. Saphores (reviewed), 449.
Radio-activity, Philosophy of, or Selective Involution, Eugene C. Savidge (reviewed), 525, 526.
Radiograph-scope Co. exhibit, 163.
Radiographic simulation of renal calculi by papillomata of skin (abstract), M. M. Melicow and H. H. Gile, 357.
Radiologic diagnosis of gas cysts of intestines (abstract), Bonnamour, Badolle, and Beaupere, 275.
Radiologic findings concerning certain arthritisms of hip (abstract), P. Moulonguet, 269.
Radiological aspect of duodenal ulcer (abstract), W. H. Dickson, 265, 266.
Radiological examination of uterus (abstract), G. Cotte and P. Bertrand, 460.
Radiology, courses in, provided by University of Cambridge (England), 383.
Radiology, Handbook of Medical Electricity and, James R. Riddell (reviewed), 361.
Radiology in group practice (editorial), Reginald H. Jackson, 250-254.
Radiology of Gynecology, Obstetrics, and Urology, Carlos Heuser (reviewed), 447.
Radiology, Section of, American Medical Association, 443.
Radiology, Use of, in teaching anatomy, C. R. Bardeen, 384.
Radiotherapeutic menopause: its significance and management (abstract), J. A. Corscaden, 170, 171.
Radiotherapy for cancer of tongue (abstract), G. Zanotti, 533.
Radiotherapy, Compton effect and its significance in (abstract), W. Friedrich, 459.
Radiotherapy, Myomectomy, hysterectomy and, in fibromyoma of uterus (abstract), J. C. Masson, 173, 174.
Radiotherapy, Stimulating, in gynecologic diseases (abstract), L. Seitz, 458, 459.
Radiotherapy, Stimulation and immunity in (abstract), A. U. Desjardins, 170.
Radiotherapy, Superficial and Deep, Treatise on, Carlos Heuser (reviewed), 448.
Radium and roentgen rays, mandible, Effect of, upon (abstract), M. Leist, 364.
Radium and X-rays in fight against cancer, G. E. Pfahler, 215.
Radium, cancer of cervix, Reaction of tissues to, in treatment of, and importance of lacerations in producing cancer in this location (abstract), L. K. P. Farrar, 481.
Radium, carcinoma of esophagus, Application of, to, Joseph Muir, 127.
Radium Emanation Corporation, 257.
Radium, fibroma of uterus, treatment (abstract), C. J. Miller, 92.
Radium, Gastric carcinoma treated by application of, Joseph Muir, 330.
Radium Home, Stockholm, 218, 219.

Radium, hyperthyroidism, treatment of, Joseph Muir, 223.
Radium in dermatology (abstract), Hugh Mackay, 432.
Radium Institute, London, 127, 132, 332, 335.
Radium, laryngeal cancer, Application of, to, Joseph Muir, 34.
Radium, malignancy, treatment, 51, 95, 96.
Radium, malignant disease of upper air and food passages by, Treatment of (abstract), W. Milligan, 267.
Radium, mammary carcinoma, Value of, in treatment of, Joseph Muir, 416.
Radium, Mikulicz's disease treated with, Two cases of (abstract), A. E. H. Pinch, 91.
Radium necrosis of bone (abstract), D. B. Phemister, 276.
Radium, nevi, Treatment of, with, Zoe Allison Johnston, 292.
Radium tubes, Easy method for making surface casts to hold in position, W. H. Cameron, 438.
Radium, *see* Carcinoma of breast, Treatment of, Robert E. Fricke.
Radium, *see* Cathode ray tube—development of General Electric Research Laboratory.
Radon (radium emanation) in treatment of intraoral cancer (abstract), F. E. Simpson and R. E. Flesher, 82, 83.
Rahm, J., 89.
Rambo, V. C., 317, 324.
"Ramul," 363.
Randall, Lawrence M., 266, 498, 499.
Ranson, John R., 445.
Rays, secondary, Sensitization to, from metal surfaces; experiments with photographic emulsion and with superficial cultures of bacteria (abstract), H. Holthusen, A. Schuback, and H. Sielman, 532, 533.
Recklinghausen's neurofibromatosis and skeleton: plea for complete study of the disease (abstract), E. P. Lehman, 174, 175.
Regan, J. C., 3, 13.
Régaud, C., 218-220.
Reid, William D., 101, 103.
Reitter, G. S., 316.
Retina, hemorrhagia in, Treatment of, with roentgen rays (abstract), R. Hessberg, 87.
Reuben, Mark S., 263.
Reyn, Axel, 524.
Reznikoff, 464.
Rhinological aspect of bronchial asthma, W. V. Mullin, 482.
Richter, H., 182.
Rickets, adolescent (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 409.
Rickets, Vitamin problem in therapy of (abstract), F. Kohl, H. Geffcken, and H. Richter, 181, 182.
Riddell, James R., 361.
Ritvo, Max, 3, 13.
Rivero, F., 256.
Roberts, P. W., 89.
Robertson, H. E., 111, 112, 116.
Robinson, G. Allen, 444.
Roentgen, 254, 317, 369, 384.
Roentgen amenorrhea, temporary, Regarding (abstract), H. Guthmann and O. Bott, 174.
Roentgen dosimeter with autocontrol, "Mekapion," an integrating (abstract), S. Strauss, 436.
Roentgen irradiation and inflammations (abstract), L. Heidenhain, 367, 368.
Roentgen radiation and intravenous dextrose injection, Combination of (abstract), E. G. Mayer, 183, 184.
Roentgen-Radium Institute, Christiania, 225.
Roentgen ray, Angina pectoris, with report of case treated with, L. C. Ecker, 98.
Roentgen-ray doses in absolute measure of roentgen unit, Regarding (abstract), G. H. Schneider, 180.
Roentgen ray, Mensuration and localization by means of, Clayton R. Johnson, 518.
Roentgen-ray production, Investigations regarding, and electrical characteristics of high tension rectifier under various working conditions (abstract), Heyde and E. Saupe, 89, 90.
Roentgen-ray sterilization, Normal development of embryo after (abstract), M. Bolaffio, 89.
Roentgen-ray sterilization, tumor formation after, Further contributions to question of: special consideration of development of sarcoma in ovary and uterus (abstract), E. Vogt, 182, 183.
Roentgen-ray therapy, Deep, in treatment of carcinoma of bladder (abstract), C. A. Waters, 178, 179.
Roentgen-ray therapy, superficial, Point gap sparkover: variations and their effect on dosage in (abstract), A. J. Markley, 262.
Roentgen-ray treatment of carcinomas of urinary bladder, inoperable (abstract), H. Schmitz and J. E. F. Laibe, 179.
Roentgen-ray treatment of mediastinal tumors, Regarding (abstract), I. Schaaff, 85.
Roentgen rays, Analgesic property of, A. U. Desjardins, 317.
Roentgen rays and radium, Effect of, upon mandible (abstract), M. Leist, 364.
Roentgen rays, Biological effect of (abstract), F. M. Groedel and E. Schneider, 173.
Roentgen rays, biological effect of, Contribution to (abstract), Walther Schmidt, 262.
Roentgen rays, central nervous system, Effect of, on (abstract), A. Rachmanow, 84, 85.
Roentgen rays, cutaneous tolerance for, Variations of (abstract), G. M. MacKee and J. J. Eller, 171, 172.
Roentgen rays, hard, Contribution to mechanism of effect of (abstract), J. Rahm and W. Koose, 89.
Roentgen rays, hemorrhagia in retina treated with (abstract), R. Hessberg, 87.
Roentgen rays, inflammatory diseases of adnexa, particularly of gonorrhea, Concerning treatment of, with (abstract), W. Baer, 365.
Roentgen rays, injury to offspring by, Experimental contributions to question of (abstract), R. Dyroff, 527.
Roentgen rays, injury to offspring by, Regarding question of (abstract), W. Flaskamp, 527.
Roentgen rays, irradiation, Total, of human body with (abstract), A. von Liebenstein, 457.
Roentgen rays, Malignant angiomas, with reference to question of sarcoma due to (abstract), S. F. Livingston and Paul Klemperer, 173.
Roentgen rays, mastitis, Treatment of, with (abstract), E. Zweifel, 456.
Roentgen rays, Measurement of liver by means of: based upon study of 502 subjects (abstract), G. E. Pfahler, 453.
Roentgen rays, on acid base equilibrium, Influence of (abstract), G. von Pannewitz, 493.
Roentgen rays, on decomposition of starch, Experimental investigations regarding effect of (abstract), E. Schneider, 169.
Roentgen rays, Pirquet reaction, Changes in, under influence of various doses of (abstract), J. G. Liebersohn and I. I. Schimanko, 366.
Roentgen rays, pleura and lungs, Reaction of, to (abstract), A. U. Desjardins, 273, 274.

Roentgen rays, systemic effect of, Contribution to (abstract), H. Zacherl, 90, 91.
Roentgen rays, yeast, Effect of medicaments and, on (abstract), H. Zeller, 169.
Roentgen society, Function of local, P. M. Hickey, 441.
Roentgen therapy, deep, tumors of bladder, Four years' experience in treatment of, by (abstract), C. A. Waters, 120.
Roentgen therapy of Mikulicz's disease, Regarding (abstract), J. Ziegler, 175.
Roentgen treatment of bronchial asthma (abstract), V. Kogan-Jasny and Th. Abramowitsch, 366.
Roentgen treatment of inflammatory diseases (abstract), F. Pordes, 368.
Roentgen treatment of surgical inflammatory processes (abstract), S. R. Fraenkel and L. M. Nissnjewitsch, 368.
Roentgen units, Erythema doses in (abstract), O. Glasser and W. H. Meyer, 532.
Roentgen units, Erythema dose in, for characteristic radiation of copper (abstract), G. H. Kloevekorn and O. Gaertner, 455.
Roentgen units, Regarding small ionization chamber measuring, independent from wave length and measurement of back scattering in water phantom (abstract), R. Glocker and E. Kaupp, 175.
Roentgenography, Uterotubal, with lipiodol (abstract), I. C. Rubin and A. J. Bendick, 179, 180.
Roentgenological gastro-intestinal examination, Expectations and realizations from routine (abstract), A. S. Kirkland, 528.
Roentgenologists, Many, are overlooking a great opportunity (editorial), Kennon Dunham, 154.
Roentgenology, Post-graduate instruction in, P. M. Hickey, 379.
Roentgenology, Rôle of, in medical education (abstract), T. W. Todd, 270, 271.
Roentgenology, Teaching of, to undergraduates, Edward S. Blaine, 374.
Roentgenology, Undergraduate instruction in, James J. Clark, 394.
Roentgenotherapy of Basedow's disease, Present status of (abstract), J. Borak, 181.
Roentgenotherapy of inflammatory diseases in gynecology (abstract), G. A. Wagner, 367, 368.
Roentgenotherapy of tumors of hypophysis (abstract), J. I. Heinismann and L. J. Czerny, 357.
Roever, W., 458.
Roger, Henri, 133, 139.
Rogers, F. T., 144, 145, 148, 169, 219.
Rogers Laboratory of Physics of Massachusetts Institute of Technology, 336.
Rolleston, Sir Humphry, 257.
Rosenberger, H., 185, 193.
Rosenow, E. C., 243.
Rosenthal, 104.
Rothman, St., 521.
Rous, 452, 478.
Rous chicken tumor, 96, 97, 452, 466, 478.
Rous chicken tumor, Effects of X-rays upon (abstract). S. Russ and G. M. Scott, 365.
Rowe, Edward W. (portrait), 523.
Rubin, I. C., 180, 271, 460, 498, 499.
Ruggles, H. E., 357.
Rump, W., 311, 316.
Russ, Sidney, 257, 365.
Russey, 220.
Rutherford, 44.
Ryan, Eric J., 173.

Sacral canal, intravenous absorption of substances injected into, X-ray studies of caudal anesthesia and (abstract), D. C. Elliott, 528, 529.
Salinger, S., 36, 38.
Salivary glands and ducts, Calculi of (abstract), G. R. Harrison, 458.
Samariterhaus, Heidelberg, 85.
Sampson, C. M., 166.
Samuel, E. C., 443, 445.
Sandborn, M. J., 155, 159.
Sanford, Conley H., Syphilis of stomach, 73.
Sanger, B. J., 172.
Sante, L. R., 1, 26, 82-84, 87-90, 171, 175, 263. *See below.*
Sante, L. R., Massive collapse of lung (original paper), 1. *See other references.*
Saphores, J., 444, 449.
Sarcoma due to roentgen rays, Malignant angiomas, with reference to question of (abstract), S. F. Livingston and Paul Klemperer, 173.
Sarcoma in ovary and uterus, special consideration of development of: Further contributions to question of tumor formation after roentgen-ray sterilization (abstract), E. Vogt, 182, 183.
Sarcoma Registry, 199, 282.
Sargent, William H., 341.
Sastre, G. G., 256.
Sauerbruch, 90.
Saupe, 90.
Savidge, Eugene Coleman, 525, 526.
Scal, J. Coleman, 273.
Scaphoid, accessory tarsal, Significance of (abstract), I. Zadek, 88, 89.
Schaaff, J., 85.
Schaeffer, 400.
Schaeffer, J. Parsons, 509.
Schall, L., 90
Scheminzky, F., 178.
Schenck, H. P., 531.
Schiller, V., 533.
Schimanko, I. I., 366.
Schmidt, Walther, 262.
Schmidt, William H., 445.
Schmitz, Henry, 179, 217, 219, 220, 444.
Schneider, C. C., 158.
Schneider, E., 169, 173.
Schneider, G. H., 180.
Scholten, Gustav C. J., 219.
Schons, Edward, Chart for determining developing time according to condition of developer, 67.
Schreiner, B. F., 218, 220.
Schuback, A., 533.
Schugt, P., 190, 194.
Schüller, Arthur, 524.
Schultz, O. T., 496.
Schwarz, G., 364.
Scientific Exhibit, Milwaukee Annual Meeting, described by Dr. C. G. Sutherland, 155.
Scott, A. C., Sr., 95.
Scott, G. M., 365.
Scott, S. Gilbert, 363.
Scott, W. J. M., 2, 13.
Scrimger, F. A. C., 2, 13.
Scurvy (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 409.
Sederholm, E., 317, 324.
Seitz clinic, 174.
Seitz, L., 182, 219, 459.
Selmene Winter Foundation for Developmental Study of Children, 156, 398.
Seneca (quoted), 98.
Sergent, E., 490, 491.
Shearer, 449.
Sheldon, F. B., 82, 84, 241, 268, 434. *See below.*
Sheldon, Francis B., Importance of teeth in routine gastro-intestinal examinations (original paper), 241. *See other references.*

Sicard, J. A., 171, 447, 489, 490, 499.
Siegbahm, 449.
Siegbahn, Manne (Upsala, Sweden), 390.
Sielman, H., 533.
Sievert, R. M., 311, 316.
Simmons, C. C., 416.
Simonson, S., 318, 324.
Simpson, 296.
Simpson, Frank E., 83, 129.
Sinus disease, nasal accessory, Report of two cases of brain abscess present in patients suffering from (abstract), R. E. Parrish, 180, 181.
Sinus mapping by displacement method, A. W. Proetz and E. C. Ernst, 502.
Sinuses, nasal accessory, Developmental study of, W. W. Wasson, 398.
Sinuses, nasal, Displacement irrigation of: new procedure in diagnosis and conservative treatment (abstract), A. W. Proetz, 268, 269.
Sinusitis, chronic, and of maxillary cysts, Iodized oil as aid in diagnosis of (abstract), P. B. MacCready, 487.
Sittenfield, M. J., 444, 453, 465, 474, 477-479. *See below.*
Sittenfield, M. J., Cancer problem with reference to recent developments (original paper), 465. *See other references.*
Sjogren, T., 317, 324.
Skavlem, J. H., 300, 306, 371, 373.
Skeleton, Recklinghausen's neurofibromatosis and: plea for complete study of the disease (abstract), E. P. Lehman, 174, 175.
Skin eruptions, diabetic, Light therapy of (abstract), St. Rothman, 521.
Skin, human, Studies of the roentgen erythema of the, II. Skin capillary changes after exposure to filtered roentgen rays and to ultra-violet radiation, E. A. Pohle, 185.
Skin malignancies, X-ray therapy in, J. M. Martin, 204.
Skinner, C. E., 318, 324.
Skinner, E. H., 158, 525, 526.
Sluder, Greenfield, 484, 487, 509.
Slye, Maud, 96, 97.
Smith, Alan De F., 83.
Smith, A. O., Corporation, Milwaukee, 156.
Smith, E. A., 158.
Smith, Erwin F., 96.
Smith, Harmon, 36, 38.
Smith, L. D., 158.
Smithies, Frank, 75.
Soiland, Albert, 443, 461, 469, 475, 479. *See below.*
Soiland, Albert, Costolow, William E., and Meland, Orville N., Metallic colloids in treatment of cancer: preliminary report (original paper), 469. *See other references.*
Sonnenschein, Robert, 34, 38.
Sosman, M. C., 445.
"Spectroscopy of X-rays," Siegbahn, 390.
Spiller, William G., 133, 139.
Spine, typhoid, Spondylitis of unknown etiology simulating (abstract), S. C. Woldenberg, 269, 270.
Spondylitis of unknown etiology simulating typhoid spine (abstract), S. C. Woldenberg, 269, 270.
Sprenger, Arthur, 77.
Sproull, John, 440.
Squier, 156.
Stacy, Leda J., 444.
Standard X-ray Co. exhibit, 163.
Starch, Experimental investigations regarding effect of roentgen rays on decomposition of (abstract), E. Schneider, 169.
Starling's "law of the heart," 370.
Steel, 428.
Steenbock, 41, 43.
Stein, Irving F., 156, 494, 500, 501. *See below.*
Stein, Irving F., and Arens, Robert A., Iodized oil and pneumoperitoneum in gynecology (original paper), 494. *See other references.*
Stembo, L., 317, 324.
Sterility, Diagnostic value and therapeutic application of peruterine sufflation of fallopian tubes in cases of (abstract), I. C. Rubin, 271.
Sterility, Lipiodol as adjunct to tubal inflation in diagnosis of (abstract), L. M. Randall, 266.
Sterilization, roentgen-ray, Further contributions to question of tumor formation after: special consideration of development of sarcoma in ovary and uterus (abstract), E. Vogt, 182, 183.
Sterilization, roentgen-ray, Normal development of embryo after (abstract), M. Bolaffio, 8.
Stern (Cleveland), 412.
Stevens, Charles A., 247.
Stevens, J. T., 227, 229, 421.
Stevens, R. H., 156, 240, 262, 433, 474, 477, 499.
Stevenson, P. H., 165.
Stewart, John, 7.
Stewart, William H., 173.
Still's disease (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 414.
Stimson's "Fractures and Dislocations," 366.
Stomach and duodenum, Acute perforations of (abstract), F. B. McCarty, 529.
Stomach, Syphilis of: report of case, Conley H. Sanford, 73.
Stone, Harvey B., 445.
Stone, R. S., 156.
Stone, William S., 130, 132, 444.
Stover, 204.
Strauss, A., 445.
Strauss, S., 436.
Sturm, 220.
Sunlight and Artificial Radiation, Clinical Application of, Including Their Physiological and Experimental Aspects, with Special Reference to Tuberculosis, Edgar Mayer (reviewed), 361.
Sutherland, Charles G., 111, 155-159, 242, 509. *See below.*
Sutherland, Charles G., Duodenal ulcer: comparison of roentgenologic and histologic findings (original paper), 111. *See other references.*
Svedberg, 461, 464.
Swan-Myers Co. exhibit, 163.
Swanberg, Harold, 184.
Swann, M. B. R., 317, 324.
Sweet, W. M., 318, 324, 336-338.
Swink, W. T., 73.
Syphilitic periostitis of cervical vertebræ and right clavicle (abstract), L. C. Montgomery, 366.
Syphilis of stomach: report of case, Conley H. Sanford, 73.

Tabetic spinal osteo-arthropathy, with report of 4 cases, John L. Garvey and Robert L. Glass, 133.
Tannenbaum, N. E., 420, 421.
Tarsus, bones forming, Enlargement of (abstract), A. Mouchet and J. Belot, 271, 272.
Taussig, 296.
Taussig, F. J., 444.
Taussig, Laurence, 268.
Tedstrom, M. K., 176.
Teeth, Importance of, in routine gastro-intestinal examination, Francis B. Sheldon, 241.
Temin, Morris, and Hunt, Franklin L., X-ray protective plasters (original paper), 117.
Teratoma, 71, 72.

Teratoma, Mediastinal: case report, H. W. Grimm, 438.
Terry, Wallace I., 227, 229.
Thales, of Miletus, 600 B. C., 64.
Therapy, clinical deep, Uniform voltage *vs.* pulsating currents in, A. Mutscheller, 121.
Therapy, Regarding path and effect of ionization in (abstract), H. Picard, 178.
Thomson, 44.
Thymic enlargement, Roentgen studies of 500 children for (abstract), C. W. Perkins, 264.
Thymic syndrome, Relation of thymus to (abstract), M. S. Reuben and H. R. Fox, 262, 263.
Thyroid disease, X-ray therapy in functional, A. W. Erskine, 140.
Tibia, Osteomata of lower end of (abstract), E. Weinberg, 88.
Tilley, H., 487.
Titterington, M. B., 336, 337.
Todd, T. Wingate, 270, 271.
"Toiles," Radium, 296.
Tongue, Radiotherapy for cancer of (abstract), G. Zanotti, 533.
Tonsils, diseased, Irradiation of (abstract), J. Coleman Scal, 273.
Torek, Franz, 130, 132.
Traube's cells, Regarding effect of electromagnetic waves of various lengths on (abstract), G. Politzer and F. Scheminzky, 177, 178.
Tribondeau, 451.
Tri-ped baby, Report of case of, W. H. Wallace, 71.
Trostler, I. S., 14, 158, 248, 360, 433. *See below.*
Trostler, I. S., Malpractice insurance question (original paper), 14; discussion, 433. *See other references.*
Trostler, I. S., Parotid fistula: case history (original paper), 248. *See other references.*
Tubal inflation in diagnosis of sterility, Lipiodol as adjunct to (abstract), L. M. Randall, 266.
Tuberculosis (Bone diseases in infants and children, Philip Lewin and E. L. Jenkinson), 410.
Tuberculosis, Clinical Application of Sunlight and Artificial Radiation, Including Their Physiological and Experimental Aspects, with Special Reference to, Edgar Mayer (reviewed), 361.
Tuberculosis, genital and peritoneal, of female, Regarding (abstract), O. Gragert, 182.
Tubes, X-ray, 255.
Tumor formation after roentgen-ray sterilization, Further contributions to question of: special consideration of development of sarcoma in ovary and uterus (abstract), E. Vogt, 182, 183.
Tumor, Rous chicken, Effects of X-rays upon (abstract), S. Russ and G. M. Scott, 365.
Tumors [of] bladder, Four years' experience in treatment of, by deep roentgen therapy (abstract), C. A. Waters, 120.
Tumors, bone, Diagnosis and treatment of bone lesions of hand and foot, with special reference to, Max Kahn and L. C. Cohn, 289.
Tumors, Epithelial, of bladder, Treatment of (abstract), C. F. Burnam and William Neill, 170.
Tumors [of] gasserian ganglion, with report of two cases of extracranial carcinoma infiltrating ganglion by direct extension through maxillary division (abstract), M. M. Peet, 366, 367.
Tumors [of] hypophysis, Roentgenotherapy of (abstract), J. I. Heinismann and L. J. Czerny, 357.
Tumors, irritation, Clinical and experimental results of investigations dealing with (abstract), K. Brandes, 273.
Tumors, mediastinal, Regarding roentgen-ray treatment of (abstract), I. Schaaff, 85.
Tunick, I. S., 103.
Turner, Dawson, 224, 229.

Ulcer, Duodenal: radiological aspect (abstract), W. H. Dickson, 265, 266.
Ulcer, gastric, X-ray therapy of (abstract), V. Schiller and W. Altschul, 533.
Ulcers, jejunal, Secondary, and their radiological diagnosis (abstract), S. Gilbert Scott, 363.
Ullmann, Henry J., 363, 365, 444, 455, 458, 461, 469, 475, 479. *See below.*
Ullmann, Henry J., Use of colloidal lead in treatment of cancer after method of W. Blair Bell (original paper), 461. *See other references.*
Ulna, lower end of, Compound dislocation of (abstract), S. H. Corrigan and C. E. Corrigan, 366.
Ultra-violet rays, Mechanism of effect of, on red blood corpuscles (abstract), H. Koeppe, 183.
Ultra-violet rays, Short, in sun spectra (abstract), W. Hausmann, 529.
Upson, W. O., 364.
Ureter, Effect of irradiation on (abstract), C. L. Martin and F. T. Rogers, 169.
Ureteral openings, Ectopic: report of case (abstract), R. H. Herbst and H. J. Polkey, 532.
Urinary tract, lower, Malignant growths of (abstract), D. W. MacKenzie, 364, 365.
Urine, Urobilinogen excretion in, after X-ray treatment and fluoroscopy (abstract), H. Bromeis, 270.
Uterine carcinomata, Should they be operated on or irradiated (abstract), H. Eymer, 357.
Uterine cervix, carcinoma of, Question of irradiation and of (abstract), W. Furst, 274.
Uterus, fibroma of, Radium in treatment of (abstract), C. J. Miller, 92.
Uterus, Myomectomy, hysterectomy, and radiotherapy in fibromyoma of (abstract), J. C. Masson, 173, 174.
Uterus, Radiological examination of (abstract), G. Cotte and P. Bertrand, 460.
Uterus, sarcoma in ovary and, special consideration of development of: Further contributions to question of tumor formation after roentgen-ray sterilization (abstract), E. Vogt, 182, 183.

Vahle, W., 189, 194.
Van Nuys, 385.
Van Zwaluwenburg, J. G., 27, 33, 336.
Vaquez, H., 23, 33, 303, 306.
Vaughn, 529.
Viamonte, M., 256.
Victor X-ray Corporation, 156, 164.
Vinson, P. P., 132.
Vitamin problem in therapy of rickets (abstract), F. Kohl, H. Geffcken, and H. Richter, 181, 182.
Vogt, E., 183.
Von Lackum, Herman L., 83.
Von Seuffert, 219, 220, 222.

Wadhams, Robert P., 445.
Wagner, G. A., 367, 368.
Wahlin, 449.
Wallace, Sir Cuthbert S., 257.
Wallace, W. H., 71, 477, 481. *See below.*
Wallace, W. H., Report of case of tri-ped baby (original paper), 71. *See other references.*
Wappler Electric Co. exhibit, 165.
Warburg, 465.
Ward, Grant E., 444.
Warren, E. J., 162.
Warren, L. F., 27, 33.
Warren, S. L., 144, 148.
Warthin, A. S., 270.
Washburn, E. W., 449.

Wasson, W. W., 76, 159, 398. *See below.*
Wasson, W. Walter, Developmental study of nasal accessory sinuses (original paper), 398. *See other references.*
Wasson, W. W., End-results (editorial), 76. *See other references.*
Waters, Charles A., 120, 179, 509.
Watkins, W. Warner, 156, 336, 531. *See below.*
Watkins, W. Warner, and Mills, Harlan P., Localization of foreign bodies in or about the eye (original paper), 336. *See other references.*
Watson, D., 38.
Weil, Richard, 475.
Weinberg, Edwin, 88.
Weiss, 174, 194.
Wellish, 449.
Welsch, G., 193, 194.
Wenckebach, K. F., 100, 103.
Werner, R., 432.
Wertheim, E., 274.
Wetterer, Editor of *Internationale Radiotherapie*, 525.
Whiddington, 449.
Whipple, Allen O., 426.
Whipple, G. H., 144, 148.
White, 398.
Whyte, Bruce, 104, 456, 489, 491, 510. *See below.*
Whyte, Bruce, Gordon, J. K. M., and Pritchard, Stuart, Conclusions regarding technic following 1,000 intratracheal injections of iodized oil in adults (original paper), 104; discussion, 510. *See other references.*
Wickham, 331.
Wideroe, 263.
Widmann, B. P., 217, 220.
Williams, 181.
Williams, Charles H., 336.
Williams, E. G., 204.
Williams, Francis H., 336.
Willius, F. A., 100, 103.
Willy, Vernon J., 441.
Wilms, M., 318, 324.
Wilsey, 67, 69.
Wilson, F. N., 27, 33.
Wilson, Louis B., 291.
Wintz, H., 182, 217, 220, 311, 316, 325, 328, 459. 499, 501, 527.
Wisconsin, University of, 510.
Wistar Institute of Anatomy and Biology, 65.
Withers, Sanford, 445.
Wittkowsky, C., 133, 139.
Woldenberg, S. C., 270.
Wood, Francis Carter, 313, 314, 316, 327, 328, 461, 464, 475.

X-ray, Failure of, to detect foreign bodies in eye (abstract), F. A. Morrison, 183.
X-ray laboratories, Rules of county society committee on, 257.
X-ray plates, clinical findings and blood pressure readings in series of 300 cases, Correlation of, C. E. Ide, 307.
X-ray protective plasters, F. L. Hunt and Morris Temin, 117.
X-ray studies of caudal anesthesia and intravenous absorption of substances injected into sacral canal (abstract), D. C. Elliott, 528, 529.
X-ray therapy in functional thyroid disease, A. W. Erskine, 140.
X-ray therapy in skin malignancies, J. M. Martin, 204.
X-ray therapy of gastric ulcer (abstract), V. Schiller and W. Altschul, 533.
X-ray treatment and fluoroscopy, Urobilinogen excretion in urine after (abstract), H. Bromeis, 270.
"X-rays," Kaye, 387.
X-rays and radium in fight against cancer, G. E. Pfahler, 215.
X-rays, Effects of food irradiated with, upon mice, Joseph K. Narat, 41.
X-rays, Effects of, upon Rous chicken tumor (abstract), S. Russ and G. M. Scott, 365.
X-rays in study of physiology, Use of, Walter J. Meek, 369.
X-rays, Spectroscopy of, Siegbahn, 390.

Yankauer, Sidney, 130, 132.
Yeast, Effect of medicaments and roentgen rays on (abstract), H. Zeller, 169.
Yeh, 449.
Young, Arthur W., 368.
Young, Frank B., 155, 159, 230. *See below.*
Young, Frank B., and Cooper, Albert L., Study in paleopathology (original paper), 230. *See other references.*

Zacherl, H., 91.
Zadek, Isadore, 89.
Zanotti, G., 533.
Zeller, H., 169.
Ziegler, J., 175.
Zimmern, A., 318, 324.
Zweifel, E., 456.